

REN-01-024.ST25-final.txt
SEQUENCE LISTING

<110> MONSANTO TECHNOLOGY LLC
Ruezinsky, Diane
Bennett, Kristen
Jander, Georg

<120> Production of Increased Oil and Protein in Plants by the
Disruption of the Phenylpropanoid Pathway

<130> REN-01-024

<150> 60/427,313
<151> 2002-11-18

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<170> PatentIn version 3.1

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<210> 16
 <211> 512
 <212> DNA
 <213> Glycine max

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	caaaaattt	tatttcaaaa	cgggtaaaaa	atcctttttt	aacaaacaaa	ttgaacattg	240
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	taaaatggga	aattgtttgt	tttgacctaa	aaccttaaaa	agctgttttt	tgtgggaaaa	420
	agcaagggca	atccaatggg	gctggggggg	ggaccactgc	agttgggttaa	tttcacagcc	480
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<210> 17
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 <212> DNA
 <213> Glycine max

<400> 17	ttcccgcccc	acgcgttcct	gtaccggctt	gcgccgacag	accgaacaga	tttttttttc	60
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<210> 18
 <211> 553
 <212> DNA
 <213> Glycine max

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<400> 18
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catagacata gcaacttctg atcacttgag tgactgagtt atatataatta ttgtagtgtt 480
gcaaactagt ttgccctcct catgttttac ttgtggcgaa attaacgatg ttcaatttgt 540
ctgttaaaga tgg 553

<210> 19
<211> 550
<212> DNA
<213> Glycine max

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<222> (541)..(541)
<223> n = unknown

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<210> 20
<211> 519
<212> DNA
<213> Glycine max

<400> 20
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<210> 21
 <211> 498
 <212> DNA
 <213> Glycine max

<400> 21	cttccttct	ctgaaacaag	aaccaaagt	gagaattcga	ccgaagaatc	ccatctccga	60
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	gtggatgccg	tctccctctt	caacaacagc	aagaccagcg	agttctgcgc	ccccttaacc	420
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<210> 22
 <211> 492
 <212> DNA
 <213> Glycine max

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<210> 23
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 <212> DNA
 <213> Glycine max

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<400> 23
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cgcatgggga gag 553

<210> 24
<211> 582
<212> DNA
<213> Glycine max

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<210> 25
<211> 378
<212> DNA
<213> Glycine max

<400> 25
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tatattattg tagttgtg 378

<210> 26
 <211> 360
 <212> DNA
 <213> Glycine max

<400> 26
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 cactgcagct ggttaatttc acagccagca gagtacatgc agacgggatc aatcccagtg 240
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<210> 27
 <211> 476
 <212> DNA
 <213> Glycine max

<400> 27
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 <212> DNA
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<210> 29

<211> 467
 <212> DNA
 <213> Brassica napus

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<210> 30
 <211> 469
 <212> DNA
 <213> Brassica napus

<220>
 <221> misc_features
 <222> (208)..(302)
 <223> n = unknown

<220>
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 <222> (208)..(302)
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<210> 31
 <211> 1531
 <212> DNA
 <213> Arabidopsis thaliana

<400> 31
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<210> 32
 <211> 1493
 <212> DNA
 <213> Hordeum vulgare

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1427

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 <213> Gossypium hirsutum

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	ggacggtgct	ccgagtggct	aaggacttag	ctgagaacaa	caaagggtgct	cgtgtacttg	420
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 <212> DNA
 <213> Gossypium hirsutum

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 aagcttttgg gcctccgcc ctccgttaag cgccatga tgtaccaaca aggttgcttc 600
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 tacttgtgtg g 671

<210> 53
 <211> 759
 <212> DNA
 <213> *Gossypium hirsutum*

<400> 53
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 agccgaaggg cgggccaccg tgttggcgat cggtagctcg actccacca attgtgtgga 180
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 gaaagagaaa ttcaagcgca tgtgcaaaaa atcaatgac aaaaagcgtt acatgtatct 300
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 aatcaccgcg gttactttcc gtgggccgag tgatactact tgatagttag ttgccaagcg 720
 ttgtcgtgat gtgctgtgtg tatagagtc gatcatgct 759

<210> 54
 <211> 415
 <212> DNA
 <213> *Gossypium hirsutum*

<400> 54
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<210> 55

<211> 1508

<212> DNA

<213> *Gossypium hirsutum*

<400> 55

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1508

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 <211> 609
 <212> DNA
 <213> *Gossypium hirsutum*

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 gaaaaaagg 609

<210> 57
 <211> 960
 <212> DNA
 <213> *Gossypium hirsutum*

<400> 57
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 tcctaggact gagaccttcc gtgaagagga tcatgatgat cagcaaggct gctttgctgg 180
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 tgagaaagaa atcccttgac caaggtatgc ccaccaccgg tgaagggtat gagtgggggtg 780
 tccttttcgg attcgggtcca ggtctcactg tggaaactgt tgtgctacac agtataccta 840
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<210> 58
<211> 382
<212> DNA
<213> *Gossypium hirsutum*

<400> 58
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aaattatatt aatttatata tt 382

<210> 59
<211> 1432
<212> DNA
<213> *Solanum tuberosum*

<400> 59
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<210> 60
<211> 1419
<212> DNA
<213> Solanum tuberosum

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<210> 61
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<211> 1836

<212> DNA

<213> Oryza sativa

<400> 61

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<210> 62
 <211> 464
 <212> DNA
 <213> Oryza sativa

<400> 62
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<210> 63
 <211> 1561
 <212> DNA
 <213> Sorghum bicolor

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<400> 63
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<212> DNA

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<212> DNA

<213> Glycine max

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<211> 1310

<212> DNA

<213> Brassica napus

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<400> 83

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<210> 84
 <211> 685

<212> DNA

<213> *Triticum aestivum*

<400> 84

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<210> 85

<211> 929

<212> DNA

<213> *Triticum aestivum*

<220>

<221> misc_feature

<222> (3)..(39)

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<400> 85

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<212> DNA
<213> Triticum aestivum

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<210> 87
<211> 563
<212> DNA
<213> Triticum aestivum

<220>
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<222> (13)..(18)
<223> n = unknown

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<210> 88
 <211> 483
 <212> DNA
 <213> Triticum aestivum

<400> 88
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<210> 89
 <211> 1452
 <212> DNA
 <213> Triticum aestivum

<220>
 <221> misc_feature
 <222> (673)..(673)
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<210> 90
<211> 1885
<212> DNA
<213> Triticum aestivum

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 <211> 605
 <212> DNA
 <213> Triticum aestivum

<220>
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<210> 92
 <211> 1721
 <212> DNA
 <213> Triticum aestivum

<400> 92
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<210> 93
 <211> 795
 <212> DNA
 <213> Triticum aestivum

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 <223> n = unknown

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<400> 93
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<210> 94
 <211> 566
 <212> DNA
 <213> Triticum aestivum

<400> 94						
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<210> 95
 <211> 258
 <212> DNA
 <213> Helianthus annuus

<400> 95						
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258

<210> 96
 <211> 1400
 <212> DNA
 <213> *Nicotiana tabacum*

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<210> 162
 <211> 2535
 <212> DNA
 <213> Oryza sativa

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 <213> Oryza sativa

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 <211> 1273
 <212> DNA
 <213> Oryza sativa

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 <211> 1334
 <212> DNA
 <213> Oryza sativa

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 <213> Artificial

<220>
 <223> Primer WER_Nco

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<210> 167

<211> 38
 <212> DNA
 <213> Artificial

<220>
 <223> Primer wer_5' #2

<400> 167
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38

<210> 168
 <211> 395
 <212> PRT
 <213> Arabidopsis thaliana

<400> 168

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Glu Asn His Val Leu Gln Ala Glu Tyr Pro Asp Tyr Tyr Phe Arg Ile
 35 40 45

Thr Asn Ser Glu His Met Thr Asp Leu Lys Glu Lys Phe Lys Arg Met
 50 55 60

Cys Asp Lys Ser Thr Ile Arg Lys Arg His Met His Leu Thr Glu Glu
 65 70 75 80

Phe Leu Lys Glu Asn Pro His Met Cys Ala Tyr Met Ala Pro Ser Leu
 85 90 95

Asp Thr Arg Gln Asp Ile Val Val Val Glu Val Pro Lys Leu Gly Lys
 100 105 110

Glu Ala Ala Val Lys Ala Ile Lys Glu Trp Gly Gln Pro Lys Ser Lys
 115 120 125

Ile Thr His Val Val Phe Cys Thr Thr Ser Gly Val Asp Met Pro Gly
 130 135 140

Ala Asp Tyr Gln Leu Thr Lys Leu Leu Gly Leu Arg Pro Ser Val Lys
 145 150 155 160

Arg Leu Met Met Tyr Gln Gln Gly Cys Phe Ala Gly Gly Thr Val Leu
 165 170 175

Arg Ile Ala Lys Asp Leu Ala Glu Asn Asn Arg Gly Ala Arg Val Leu
 180 185 190

Val Val Cys Ser Glu Ile Thr Ala Val Thr Phe Arg Gly Pro Ser Asp
 195 200 205

Thr His Leu Asp Ser Leu Val Gly Gln Ala Leu Phe Ser Asp Gly Ala
 210 215 220

Ala Ala Leu Ile Val Gly Ser Asp Pro Asp Thr Ser Val Gly Glu Lys
 225 230 235 240

Pro Ile Phe Glu Met Val Ser Ala Ala Gln Thr Ile Leu Pro Asp Ser
 245 250 255

Asp Gly Ala Ile Asp Gly His Leu Arg Glu Val Gly Leu Thr Phe His
 260 265 270

Leu Leu Lys Asp Val Pro Gly Leu Ile Ser Lys Asn Ile Val Lys Ser
 275 280 285

Leu Asp Glu Ala Phe Lys Pro Leu Gly Ile Ser Asp Trp Asn Ser Leu
 290 295 300

Phe Trp Ile Ala His Pro Gly Gly Pro Ala Ile Leu Asp Gln Val Glu
 305 310 315 320

Ile Lys Leu Gly Leu Lys Glu Glu Lys Met Arg Ala Thr Arg His Val
 325 330 335

Leu Ser Glu Tyr Gly Asn Met Ser Ser Ala Cys Val Leu Phe Ile Leu
 340 345 350

Asp Glu Met Arg Arg Lys Ser Ala Lys Asp Gly Val Ala Thr Thr Gly
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Val Glu Thr Val Val Leu His Ser Val Pro Leu
 385 390 395

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 <213> Artificial

<220>
 <223> Primer Sequence

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29

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<220>

<223> Primer Sequence
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24